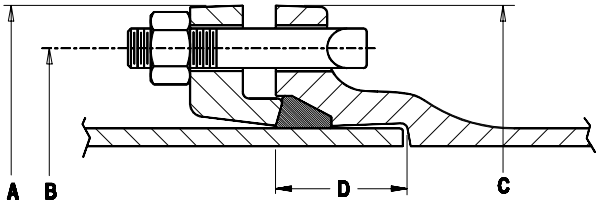
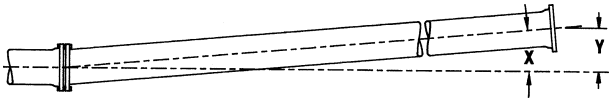
Ductile Iron Pipe
Mechanical Joint
Thickness Class Designation

Specifications

Pipe shall be ductile iron manufactured in accordance with the requirements of ANSI/AWWA C151/A21.51. Mechanical joints for such pipe shall be in accordance with ANSI/AWWA C111/A21.11. Pipe shall be Griffin or equal. Pipe thickness shall be designed in accordance with ANSI/AWWA C150/A21.50 and shall be based on laying conditions and internal pressure as specified in the project plans.

Pipe shall have cement mortar lining and seal coating, where applicable, in accordance with ANSI/AWWA C104/A21.4.





Dimensions & Weights

Pipe Barrel Super Bell-Tite Mechanical Joint									Laying Length 18 ft.		Laying Length 20 ft.	
Size	Thick. Class	Nom. Thick.	Nom. O.D.	A Gland O.D.	B Dia. Bolt Circle	C Socket O.D.	D Socket Depth	X Defl. Angle	Wt. Per Lgth. †	Y Max. Defl.	Wt. Per Lgth. †	Y Max. Defl.
in.		in.	in.	in.	in.	in.	in.	deg.	lb.	in.	lb.	in.
3	51	0.25	3.96	7.69	6.19	7.62	2.50	8°-18'	170	31.0		
	52	0.28	3.96	7.69	6.19	7.62	2.50	8°-18'	185	31.0		
	53	0.31	3.96	7.69	6.19	7.62	2.50	8°-18'	205	31.0		
	54	0.34	3.96	7.69	6.19	7.62	2.50	8°-18'	220	31.0		
	55	0.37	3.96	7.69	6.19	7.62	2.50	8°-18'	240	31.0		
	56	0.40	3.96	7.69	6.19	7.62	2.50	8°-18'	255	31.0		
4	51	0.26	4.80	9.12	7.50	9.06	2.50	8°-18'	215	31.0		
	52	0.29	4.80	9.12	7.50	9.06	2.50	8°-18'	240	31.0		
	53	0.32	4.80	9.12	7.50	9.06	2.50	8°-18'	260	31.0		
	54	0.35	4.80	9.12	7.50	9.06	2.50	8°-18'	285	31.0		
	55	0.38	4.80	9.12	7.50	9.06	2.50	8°-18'	305	31.0		
	56	0.41	4.80	9.12	7.50	9.06	2.50	8°-18'	325	31.0		
6	50	0.25	6.90	11.12	9.50	11.06	2.50	7°-7'	305	27.0	340	30
	51	0.28	6.90	11.12	9.50	11.06	2.50	7°-7'	340	27.0	375	30
	52	0.31	6.90	11.12	9.50	11.06	2.50	7°-7'	370	27.0	410	30
	53	0.34	6.90	11.12	9.50	11.06	2.50	7°-7'	405	27.0	445	30
	54	0.37	6.90	11.12	9.50	11.06	2.50	7°-7'	435	27.0	480	30
	55	0.40	6.90	11.12	9.50	11.06	2.50	7°-7'	470	27.0	520	30
	56	0.43	6.90	11.12	9.50	11.06	2.50	7°-7'	500	27.0	550	30
8	50	0.27	9.05	13.37	11.75	13.31	2.50	5°-21'	435	20.0	480	22
	51	0.30	9.05	13.37	11.75	13.31	2.50	5°-21'	480	20.0	530	22
	52	0.33	9.05	13.37	11.75	13.31	2.50	5°-21'	525	20.0	580	22
	53	0.36	9.05	13.37	11.75	13.31	2.50	5°-21'	565	20.0	625	22
	54	0.39	9.05	13.37	11.75	13.31	2.50	5°-21'	610	20.0	675	22
	55	0.42	9.05	13.37	11.75	13.31	2.50	5°-21'	650	20.0	720	22
	56	0.45	9.05	13.37	11.75	13.31	2.50	5°-21'	695	20.0	770	22
10	50	0.29	11.10	15.62	14.00	15.62	2.50	5°-21'	575	20.0	635	22
	51	0.32	11.10	15.62	14.00	15.62	2.50	5°-21'	630	20.0	695	22
	52	0.35	11.10	15.62	14.00	15.62	2.50	5°-21'	685	20.0	755	22
	53	0.38	11.10	15.62	14.00	15.62	2.50	5°-21'	735	20.0	815	22
	54	0.41	11.10	15.62	14.00	15.62	2.50	5°-21'	790	20.0	875	22
	55	0.44	11.10	15.62	14.00	15.62	2.50	5°-21'	845	20.0	935	22
	56	0.47	11.10	15.62	14.00	15.62	2.50	5°-21'	895	20.0	990	22

NOTE: 12" THRU 24"
continued on back.

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Ductile Iron Pipe

Mechanical Joint
Dimensions & Weights Continued

Pipe Barrel										Laying Length			
Super Bell-Tite Mechanical Joint										18 ft.		20 ft.	
				A	B	C	D	X			Y		Y
Size	Thick. Class	Nom. Thick.	Nom. O.D.	Gland O.D.	Dia. Bolt Circle	Socket O.D.	Socket Depth	Defl. Angle		Wt. Per Lgth.†	Max. Defl.	Wt. Per Lgth.†	Max. Defl.
in.		in.	in.	in.	in.	in.	in.	deg.		lb.	in.	lb.	in.
12	50	0.31	13.20	17.88	16.25	17.88	2.50	5°-21'		730	20.0	805	22
	51	0.34	13.20	17.88	16.25	17.88	2.50	5°-21'		795	20.0	875	22
	52	0.37	13.20	17.88	16.25	17.88	2.50	5°-21'		860	20.0	950	22
	53	0.40	13.20	17.88	16.25	17.88	2.50	5°-21'		925	20.0	1,020	22
	54	0.43	13.20	17.88	16.25	17.88	2.50	5°-21'		985	20.0	1,095	22
	55	0.46	13.20	17.88	16.25	17.88	2.50	5°-21'		1,050	20.0	1,165	22
	56	0.49	13.20	17.88	16.25	17.88	2.50	5°-21'		1,115	20.0	1,235	22
14	50	0.33	15.30	20.25	18.75	20.25	3.50	3°-35'		915	13.5	1,010	15
	51	0.36	15.30	20.25	18.75	20.25	3.50	3°-35'		990	13.5	1,095	15
	52	0.39	15.30	20.25	18.75	20.25	3.50	3°-35'		1,065	13.5	1,180	15
	53	0.42	15.30	20.25	18.75	20.25	3.50	3°-35'		1,145	13.5	1,265	15
	54	0.45	15.30	20.25	18.75	20.25	3.50	3°-35'		1,215	13.5	1,345	15
	55	0.48	15.30	20.25	18.75	20.25	3.50	3°-35'		1,290	13.5	1,430	15
	56	0.51	15.30	20.25	18.75	20.25	3.50	3°-35'		1,365	13.5	1,510	15
16	50	0.34	17.40	22.50	21.00	22.50	3.50	3°-35'		1,080	13.5	1,190	15
	51	0.37	17.40	22.50	21.00	22.50	3.50	3°-35'		1,165	13.5	1,285	15
	52	0.40	17.40	22.50	21.00	22.50	3.50	3°-35'		1,250	13.5	1,380	15
	53	0.43	17.40	22.50	21.00	22.50	3.50	3°-35'		1,335	13.5	1,475	15
	54	0.46	17.40	22.50	21.00	22.50	3.50	3°-35'		1,420	13.5	1,570	15
	55	0.49	17.40	22.50	21.00	22.50	3.50	3°-35'		1,510	13.5	1,670	15
	56	0.52	17.40	22.50	21.00	22.50	3.50	3°-35'		1,595	13.5	1,760	15
18	50	0.35	19.50	24.75	23.25	24.75	3.50	3°-0'				1,375	12
	51	0.38	19.50	24.75	23.25	24.75	3.50	3°-0'				1,480	12
	52	0.41	19.50	24.75	23.25	24.75	3.50	3°-0'				1,590	12
	53	0.44	19.50	24.75	23.25	24.75	3.50	3°-0'				1,695	12
	54	0.47	19.50	24.75	23.25	24.75	3.50	3°-0'				1,805	12
	55	0.50	19.50	24.75	23.25	24.75	3.50	3°-0'				1,910	12
	56	0.53	19.50	24.75	23.25	24.75	3.50	3°-0'				2,020	12
20	50	0.36	21.60	27.00	25.50	27.00	3.50	3°-0'				1,570	12
	51	0.39	21.60	27.00	25.50	27.00	3.50	3°-0'				1,690	12
	52	0.42	21.60	27.00	25.50	27.00	3.50	3°-0'				1,810	12
	53	0.45	21.60	27.00	25.50	27.00	3.50	3°-0'				1,930	12
	54	0.48	21.60	27.00	25.50	27.00	3.50	3°-0'				2,050	12
	55	0.51	21.60	27.00	25.50	27.00	3.50	3°-0'				2,165	12
	56	0.54	21.60	27.00	25.50	27.00	3.50	3°-0'				2,285	12
24	50	0.38	25.80	31.50	30.00	31.50	3.50	2°-23'				1,980	10
	51	0.41	25.80	31.50	30.00	31.50	3.50	2°-23'				2,125	10
	52	0.44	25.80	31.50	30.00	31.50	3.50	2°-23'				2,270	10
	53	0.47	25.80	31.50	30.00	31.50	3.50	2°-23'				2,410	10
	54	0.50	25.80	31.50	30.00	31.50	3.50	2°-23'				2,555	10
	55	0.53	25.80	31.50	30.00	31.50	3.50	2°-23'				2,700	10
	56	0.56	25.80	31.50	30.00	31.50	3.50	2°-23'				2,840	10

† Including bell.

Pipe is normally manufactured with a cement-mortar lining. Above weights do not include lining. Standard lining thickness for 4" - 12" diameter pipe is 1/16" minimum: for 14" - 24" diameter pipe is 3/32" minimum.

Weights are shown less accessories. Refer to technical data sheets 102 or 103 for accessory weights.